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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/726,594	12/04/2003	Akira Gyoutoku	P24651	6999
7055	7590 04/05/2006	04/05/2006 EXAMINER		INER
GREENBLUM & BERNSTEIN, P.L.C. 1950 ROLAND CLARKE PLACE RESTON, VA 20191			PHAM, HAI CHI	
			ART UNIT	PAPER NUMBER
·			2861	
			DATE MAILED: 04/05/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
	10/726,594	GYOUTOKU ET AL				
Office Action Summary	Examiner	Art Unit .				
	Hai C. Pham	2861				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONEI	I. lely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status	•					
1) Responsive to communication(s) filed on 30 De	Responsive to communication(s) filed on <u>30 December 2005</u> .					
2a)⊠ This action is FINAL . 2b)☐ This)⊠ This action is FINAL. 2b) This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	33 O.G. 213.				
Disposition of Claims						
 4) Claim(s) 7,9 and 21-41 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) 7,9 and 21-36 is/are allowed. 6) Claim(s) 37,38 and 40 is/are rejected. 7) Claim(s) 39 and 41 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 						
Application Papers						
9) The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the						
Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Ex	• • • • • • • • • • • • • • • • • • • •					
, _	arminer. Note the attached Office	Action of form P1O-132.				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list 	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No ed in this National Stage				
Attachment(s)	· _ ·					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:					

FINAL REJECTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claim 37 is rejected under 35 U.S.C. 103(a) as being unpatentable over Nomura et al. (U.S. 6,949,849) in view of Estabrooks (U.S. 5,768,675).

Nomura et al. discloses an electrophotographic printer comprising a photosensitive member (photosensitive drum 20), a charger (charging means 22) configured to charge the photosensitive member, an exposer (image writing means 23) configured to irradiate the photosensitive member with light to form an electrostatic latent image, the exposer comprising an array of inorganic light emitting elements (63), a developer (developing means 24) configured to adhere toner to the photosensitive member to form a toner image of the electrostatic latent image, a transferor (intermediate transfer belt 16) configured to transfer the toner image formed on the photosensitive member onto a recording medium, a fixer (fixing unit 12) configured to fix the toner image transferred onto the recording medium, and a cooler (fan 7) configured to reduce heat applied by the fixer to the light emitting element array (col. 10, lines 7-25) (col. 15, lines 51-60).

Nomura et al. fails to disclose the exposer comprising organic electroluminescence elements.

Estabrooks discloses an electrophotographic printer whose writing unit (24) is preferably an LED exposure system, an organic electroluminescence EL optical system or the like (col. 14, lines 2-6).

It would have been obvious at the time the invention was made to a person having ordinary skill in the art to provide an organic electroluminescence exposure system to the device of Nomura et al. as taught by Estabrooks since Estabrooks teaches this to be known in the art to alternatively using either an inorganic LED or organic electroluminescence exposure system.

3. Claim 38 is rejected under 35 U.S.C. 103(a) as being unpatentable over Nomura et al. in view of Estabrooks, as applied to claim 37 above, and further in view of Driessen-Olde Scheper et al. (U.S. 6,683,639).

Nomura et al. in view of Estabrooks discloses all the basic limitations of the claimed invention except for the amount of light irradiated from the organic electroluminescence element is larger than a predetermined value when cooled.

However, it is old and well known in the art that a high LED temperature results in a drop in light emission as evidenced by Driessen-Olde Scheper et al. at col. 1, lines 29-32.

It would have been obvious at the time the invention was made to a person having ordinary skill in the art to cool the writing unit of the device Nomura et al. as

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taught by Driessen-Olde Scheper et al. for the purpose of preventing the light emission of the writing unit to drop to an unacceptable level.

4. Claim 40 is rejected under 35 U.S.C. 103(a) as being unpatentable over Nomura et al. in view of Estabrooks, as applied to claim 37 above, and further in view of Hada (U.S. 6,218,660).

Nomura et al. in view of Estabrooks discloses all the basic limitations of the claimed invention except for the darkness of the toner image to be sensed.

Hada discloses an image forming apparatus including a calibration process to perform an image darkness control (AIDC) (step S530, Fig. 17) in which the toner darkness of the reference patches are detected by an AIDC sensor and the measured density is used to optimize the image darkness (col. 13, lines 27-34).

It would have been obvious at the time the invention was made to a person having ordinary skill in the art to provide a calibration process to perform an image darkness control (AIDC) to the device of Nomura et al. as taught by Hada. The motivation for doing so would have been to optimize the image darkness as suggested by Hada.

Allowable Subject Matter

5. Claims 7, 9, 21-36 are allowed.

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6. Claims 39 and 41 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

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7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Nakayasu et al. (U.S. 6,366,304) discloses an image forming apparatus whose writing unit performance is affected by the thermal influence by radiant and conductive heat from a fixing unit.

Response to Arguments

8. Applicant's arguments with respect to claims 37-38 and 40 have been considered but are most in view of the new grounds of rejection.

Conclusion

9. Applicant's amendment, which introduced new subject matters not originally claimed as well as a new independent claim with a different new scope, necessitated the new grounds of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hai C. Pham whose telephone number is (571) 272-2260. The examiner can normally be reached on M-F 8:30AM - 5:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen D. Meier can be reached on (571) 272-2149. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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PRIMARY EXAMINER

HaizhiPham

March 31, 2006